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NOV 20 1997

Before the  
Federal Communications Commission  
Washington, D.C. 20554

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

In the Matter of

Advanced Television Systems  
and Their Impact Upon the  
Existing Television Broadcast  
Service

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DOCKET FILE COPY ORIGINAL

) MM Docket No. 87-268

TO: The Commission

**EX PARTE SUBMISSION BASED ON NEW TECHNICAL DISCOVERIES  
TO HELP THE COMMISSION IMPROVE  
THE DTV TABLE OF ALLOTMENTS/ASSIGNMENTS  
SUBMITTED BY  
THE ASSOCIATION FOR MAXIMUM SERVICE TELEVISION, INC.  
AND OTHER BROADCASTERS**

November 20, 1997

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## LIST OF EXHIBITS

### Appendix 1: Documents illustrating the impact of the Improvements (continental U.S.).

- Exhibit 1A: Improvements to the FCC's DTV Table that focus on correcting the DTV-to-DTV adjacent channel problem and reducing interference to NTSC service in the three Acute Problem Areas (the Northeast, the Great Lakes region and the California coastal region).
- Exhibit 1B: The FCC's DTV Table with corrected coverage and interference figures to reflect the true extent of DTV-to-DTV adjacent channel and other interference factors (referenced in the MSTV Supplemental Reply Comments (October 8, 1997)).
- Exhibit 1C: A list of DTV-to-DTV adjacent channels that are short-spaced.
- Exhibit 1D: Examples of improvements to Acute Problem Areas.
- Exhibit 1E: Example of improvements to DTV-to-DTV adjacent channel problem.
- Exhibit 1F: A list of channels assigned in channels 60-69 in the Improvements.

### Appendix 2: Technical reports highlighting the DTV-to-DTV adjacent channel interference problem.

- Exhibit 2A: ATTC, *An Evaluation of the FCC RF Mask for the Protection of DTV Signals from Adjacent Channel DTV Interference* (July 17, 1997).
- Exhibit 2B: Eilers and Sgrignoli, *Analyzing the FCC's DTV Spectral Emission Mask and Potential Degradation to Adjacent Channels Due to Antenna Pattern Differences* (to be published in *IEEE Transactions on Broadcasting* (1997)).
- Exhibit 2C: JTCAB Ad Hoc Group on DTV Planning Parameters, *Digital Television Service Considerations and Allotment Principles* (August 1997).

### Appendix 3: Negotiated regional solution of the Eastern Washington and Northern Idaho DTV Allocation Caucus.

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**I. INTRODUCTION**

Although the Commission released the Fifth and Sixth Reports and Orders (the "R&Os") in this docket in April,<sup>1</sup> it is only now that the Commission has the information needed to arrive at sensible solutions to DTV channel assignment problems. These problems would restrict the availability of DTV service and endanger NTSC service in many markets and threaten to slow the transition to digital television. We believe that the Commission can and should ameliorate these problems without delaying the conclusion of this proceeding by even one day.<sup>2</sup>

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<sup>1</sup> Fifth Report and Order, MM Docket No. 87-268, FCC 97-116 (adopted April 3, 1997, released April 21, 1997); Sixth Report and Order, MM Docket No. 87-268, FCC 97-115 (adopted April 3, 1997, released April 21, 1997) ("Sixth R&O").

<sup>2</sup> If the Commission decides to put this ex parte submission out for comment, it should set a short comment period no longer than 15 days. To avoid delay, the Commission should not provide  
(continued...)

The Commission has undertaken a Herculean task in assigning more than 1600 DTV channels to existing broadcasters, and it has done so with a remarkable degree of receptiveness to public and industry concerns. The public owes the Commission much for enabling the launch of digital television. Nonetheless, it is inevitable in a proceeding this complex for there to be questions of implementation and, indeed, the Commission has before it more than 230 petitions for reconsideration of the R&Os. In addition, more than 60 supplemental petitions for reconsideration are pending. Many of these petitions raise serious questions about the practicability of some portions of the table of DTV allotments/assignments contained in Appendix B of the Sixth R&O (the "DTV Table"). The petitions reflect both individual station concerns and broader industry perspectives.

Understanding and addressing the concerns raised in these petitions has been a long and difficult process. It was only after the July release of OET Bulletin No. 69 -- a technical guidance document critical to analyzing the Commission's DTV Table -- that the industry could begin to assess specific channel assignments and propose alternatives where necessary. Then there were late-breaking technical discoveries that had to be digested and taken up in recommendations to the Commission. These developments explain why there

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<sup>2</sup>(...continued)

for reply comments. Under the Administrative Procedures Act, the Commission is required to "give interested persons an opportunity to participate in the rule making through submission of written data, views, or arguments with or without opportunity for oral presentation." 5 U.S.C. § 553(c). This duty is discharged through the acceptance and consideration of comments and whether or not to provide for reply comments rests in the Commission's discretion. See 47 C.F.R. § 1.415(d); Public Notice, 11 FCC Rcd. 16718 (rel. Nov. 19, 1996). A single round of comments for a limited comment period would be reasonable, particularly in light of the wide dissemination of the draft Improvements and the opportunity for industry comment prior to their finalization and submission in this pleading. (See Section II below).

have been six rounds of reconsideration pleadings over a five-and-a-half month period. Each of these rounds has built on the last, culminating in supplemental reply comments filed in October. Contained in these filings are recommendations for a few changes that should be made in this reconsideration phase to get DTV off on the right foot. Stations also will need the flexibility to make DTV station facility and channel changes as the transition proceeds. At the same time, this filing recognizes that the broadcast industry, the equipment manufacturing industry, and the American public count on quick action from the Commission to resolve the DTV channel assignments. Without doubt, the Commission faces a tremendous challenge in meeting Congress' mandate of quick action while protecting the public's existing and future stake in television service. This filing attempts to further assist the Commission to conclude the proceeding quickly while making the right choices in this critical stage when the technical viability of the DTV channel assignments hangs in the balance.

Below, we follow up on previous filings that identified two systemic problems with the DTV Table. The first concerns DTV-to-DTV adjacent channels that were assigned too close together and could result in severely decreased DTV service areas. *Neither the Commission nor the industry knew of this problem until late summer when the actual DTV interference characteristics were discovered through laboratory testing and published.* The second problem concerns assignments that will deprive millions of people of existing and new television service in the most spectrum-congested parts of the country -- the Northeast, Great Lakes region, and California coast (the "Acute Problem Areas").

This filing also shows how these problems can be alleviated quickly and with

minimum disruption to the Commission's DTV allotment/assignment scheme.<sup>3</sup> These suggestions are not intended to foreclose favorable consideration of present and future requests for individual changes to the DTV Table. Rather, they attempt to show the Commission that certain systemic problems with the DTV Table can be resolved or alleviated; the Commission should also take into account the concerns and suggestions of individual stations and groups such as the Eastern Washington and Northern Idaho DTV Allocation Caucus<sup>4</sup> both at this reconsideration phase and throughout the transition.<sup>5</sup>

## **II. BACKGROUND**

On June 13, 1997, a coalition of broadcasters representing the television networks, associations and numerous major groups including the undersigned, filed a petition for partial reconsideration and clarification of the R&Os (the "Petition").<sup>6</sup> While generally accepting the Commission's DTV allotment/assignment methodology, the Petition identified

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<sup>3</sup> Efforts were made to preserve most of the FCC's DTV assignments. Changes were made only where called for by the most extreme cases of interference. No changes were made to 1394 assignments.

<sup>4</sup> See Appendix 3.

<sup>5</sup> As noted in the Petition, the Commission must establish a streamlined mechanism for making post-reconsideration adjustments to the DTV channel allotments/assignments. Specifically, the Commission should adopt an approach that minimizes the number of petitions filed to amend the DTV Table and encourages regional solutions to shared problems. The Commission should facilitate both intra-market and inter-market channel swaps and should take steps to establish industry DTV coordinating committees, define their appropriate role and provide the tools these committees will need to help broadcasters and the Commission as DTV rolls out. See Petition at 23-28; Reply to Oppositions to Petitions for Reconsideration of the Fifth and Sixth Reports and Orders Submitted by the Association for Maximum Service Television, Inc. and the National Association of Broadcasters, MM Docket No. 87-268 (July 31, 1997) at 2-4.

<sup>6</sup> Petition for Clarification and Partial Reconsideration of the Fifth and Sixth Reports and Orders Submitted by the Association for Maximum Service Television, Inc., the Broadcasters Caucus and Other Broadcasters, MM Docket No. 87-268 (June 13, 1997)

serious problem areas in the DTV Table that result in increased interference to the NTSC service, decreased DTV service, and inaccurate service replication figures. The principal signatories of the Petition<sup>7</sup> promised to work with other broadcasters to propose specific improvements to the DTV Table, particularly in the three Acute Problem Areas.<sup>8</sup> At the time that the Petition was filed, the Commission had yet to release OET Bulletin No. 69 (the "Bulletin"), a technical guidance document for digital operations essential for understanding the application of the operating parameters for the Longley-Rice methodology and interpreting the interference results of proposed channel or facility changes.<sup>9</sup>

The Bulletin was released on July 2, 1997. Acknowledging the importance of this guidance document in effectively analyzing the impact of the DTV Table, the Commission released an order that same day providing an additional period until August 22, 1997 for petitioners to supplement pending petitions for reconsideration of individual DTV allotments.<sup>10</sup>

Shortly thereafter, the Broadcasters Caucus filed a response to other petitions

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<sup>7</sup> The Broadcasters Caucus was responsible for drafting the Petition. The Broadcasters Caucus is an ad hoc group of broadcast organizations (ABC, ALTV, APTS, CBS, Chris-Craft, Fox, MSTV, NAB, NBC, PBS, and Tribune) that was formed in 1990 as a part of the Advanced Television Systems Committee to represent broadcasters on DTV issues. ALTV and Fox did not sign the Petition, but endorsed it at least in part in their separate filings.

<sup>8</sup> See Petition at 17-18.

<sup>9</sup> See id. at 29. The Sixth R&O makes a number of references to the Bulletin, indicating that it is to serve as "[g]uidance for evaluating coverage areas using the Longley-Rice methodology," "[g]uidance for evaluating interference," and "[g]uidance on using the Longley-Rice methodology." Sixth R&O at E-30, E-35, E-39. In their petitions for reconsideration, more than 100 petitioners expressly commented on the absence of the Bulletin or the lack of information regarding the Commission's allotment methodology.

<sup>10</sup> See Advanced Television Systems and Their Impact upon the Existing Television Broadcast Service, Order, FCC 97-1377 (July 2, 1997).

for reconsideration, notifying the Commission of a serious concern that had just been uncovered by Advanced Television Technology Center ("ATTC") testing.<sup>11</sup> The ATTC showed that the Commission and the industry had severely underestimated the extent to which real-world DTV signals are susceptible to interference and, therefore, that many adjacent DTV channels were situated too close together.<sup>12</sup> This conclusion is confirmed by work done in Canada, where experts concluded that the DTV-to-DTV adjacent channel interference problem is serious enough to prohibit DTV-to-DTV adjacent channel assignments within 80 to 100 km of each other.<sup>13</sup> The Canadian report is included at Appendix 2.

On August 22, 1997, more than sixty petitioners filed supplemental petitions for reconsideration in light of the technical guidance provided in OET Bulletin No. 69. Oppositions to the supplements were filed in late September and on October 8, 1997, MSTV filed a reply to these supplemental oppositions.<sup>14</sup> The October filings were the last in six

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<sup>11</sup> See Comment On and Opposition to Petitions for Reconsideration of the Fifth and Sixth Reports and Orders Submitted by the Association for Maximum Service Television, Inc. and the Broadcasters Caucus, MM Docket No. 87-268 (July 18, 1997) at 29-30 (hereinafter "Joint Opposition"). This filing was followed by the submission of reply comments on July 31, 1997.

<sup>12</sup> Broadcasters submitted the ATTC study as part of comments filed in response to petitions for reconsideration. See *id.* at Appendix 1 (An Evaluation of the FCC RF Mask for the Protection of DTV Signals from Adjacent Channel DTV Interference, Advanced Television Technology Center, Inc. (July 17, 1997)). The ATTC found that typical DTV-to-DTV adjacent channel performance was 20 dB worse than that used by the FCC to develop the DTV Table.

<sup>13</sup> The Improvements presented here permit DTV-to-DTV adjacent channel assignments located more than 70 km from each other. As noted in our July filing, one way to slightly lessen the impact of adjacent channel interference problems would be to replace the fixed mask adopted in the Sixth R&O with a specification of total average power in the adjacent 6 MHz channel, weighted for DTV-to-NTSC adjacencies and unweighted for DTV-to-DTV adjacencies. See Joint Opposition at 30.

<sup>14</sup> Reply to Oppositions to Supplemental Engineering Information Filed in Support of Petitions for Reconsideration Submitted by the Association for Maximum Service Television, Inc., MM Docket No. 87-268 (October 8, 1997).



rounds of reconsideration pleadings filed in response to the R&Os.

In filing the Petition, Broadcasters requested additional time to use the Bulletin to craft appropriate solutions for the Acute Problem Areas. Further engineering analyses using the Commission's software and methodology set forth in the Bulletin generally confirmed the Petition's earlier findings regarding replication and interference under the Commission's DTV Table. In the October pleading, MSTV was able to provide more details on the extent of the DTV-to-DTV adjacent channel problem. MSTV showed that in some cases, this DTV-to-DTV interference will result in DTV service that replicates less than 37% of the NTSC service area. MSTV showed, for example, that the replication for WCTD in Miami, Florida will be only 36.9%; replication for WMFP in Lawrence, Massachusetts will be 45.6%; replication for WDZL in Miami, Florida will be 52.9%; and replication for WMVT in Milwaukee, Wisconsin will be 70.1%. Further analysis shows that the DTV Table contains about 250 adjacent DTV channel assignments that are too close together given what we now know about DTV adjacent channel interference. A list of these channel pairs is attached at Exhibit 1C. This short-spacing will significantly reduce the DTV service areas by up to 60% for nearly 130 stations (or at least one in each pair of adjacent channels).

Over the summer and continuing into the fall, MSTV led an effort to further analyze the extent of the Acute Problem Areas and DTV-to-DTV adjacent channel interference problems and propose possible solutions. The result was a set of improvements (the "Improvements") derived from the same neutral principles that have guided other joint industry efforts in the past to inform the Commission's DTV allotment/assignment process. By neutral, we mean that channel assignments are made systematically by a computer

program that is blind to station identity -- to who owns a station or whether a station is noncommercial, commercial, a network affiliate or an independent. The program only heeds evidence of interference and attempts to rectify the most egregious cases of interference to existing and DTV service. At the same time, the program attempts to make as few changes to the DTV Table as possible so as to reduce disruption to the Commission's process.

Several drafts of these Improvements were circulated to the entire industry, which was time-consuming, but it was important to gain as much industry support for the process as possible. A draft substantially similar to Exhibit 1A was made available to the broadcasting industry through notification by NAB and MSTV of general access to the information on MSTV's web page (<http://www.mstv.org>) and through direct mailings and distributions. Broadcaster reactions were requested and, in some cases, are reflected in the Improvements. However, given the importance of making this filing this week, there was not time to widen the signatory list.

### **III. THE IMPROVEMENTS**

The Improvements are attached at Exhibit 1A. The Improvements make 357 changes to the DTV Table in the Continental U.S.<sup>15</sup> and achieve the following results:

- As compared with the DTV Table, the Improvements reduce the amount of interference to NTSC and DTV service by: 33% in the Northeast, more than 32% in the Great Lakes region and 25% in the southern California region. These reductions would benefit about 8 million people<sup>16</sup> who, under the DTV Table, would lose

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<sup>15</sup> About three-quarters of these changes were in the Acute Problem Areas.

<sup>16</sup> This is the aggregate number of potential viewers per channel.

service.<sup>17</sup>

- The Improvements remedy some of the most egregious cases of interference in the Acute Problem Areas (see Exhibit 1D). The Petition included graphic representations of some of these cases. For example, the Petition (at Exhibit 7) showed that, under the DTV Table, WTVR in Richmond VA would suffer new interference that would result in a 17.8% reduction in NTSC service area and a 15.8% population loss. Under the Improvements, WTVR would suffer *no* new interference to its NTSC service area and no population loss. The Petition (at Exhibit 7) showed that, under the DTV Table, WPTO in Oxford Ohio would suffer new interference that would result in a 23.7% reduction in NTSC service area and a 32.2% population loss. Under the Improvements, these figures would be reduced to only a 2.8% loss of NTSC service area and a 4.6% population loss. The Petition (at Exhibit 7) showed that, under the DTV Table, WJBK in Detroit would suffer new interference that would result in a 35% reduction in NTSC service area and a 12.5% population loss. Under the Improvements, there would be no new interference.
- The Improvements cure the short-spacing of all the cases of DTV-to-DTV adjacent channels in Exhibit 1C. This cure was responsible for about two-thirds of all channel assignment changes the Improvements made to the DTV Table. The following shows the impact of these changes on the cases cited in Section II above and in the October filing. WCTD in Miami moves from replicating only 36.9% of its NTSC service area under the DTV Table to replicating 98.6%; WMFP in Lawrence, Massachusetts moves from 45.6% to 99.7% replication; WDZL in Miami moves from 52.9% to 98.8% replication; and WMVT in Milwaukee moves from 70.1% to 100% replication. See Exhibit 1E.
- To achieve these results, the Improvements make only an additional 32 assignments in channels 60-69 in the Continental U.S. See Exhibit 1F for a list of DTV assignments in channels in 60-69. The additional assignments in channels 60-69 will have little impact on the availability of spectrum for public safety services because they are in congested areas in which the operation of public safety services will necessarily be limited by existing NTSC stations<sup>18</sup> even if the DTV Table were adopted as-is.<sup>19</sup>

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<sup>17</sup> Exhibit 1B shows the DTV Table corrected to accurately affect the impact of DTV-to-DTV adjacent channel interference. Limited corrections also were made to reflect other database errors and discrepancies in the Commission's DTV Table.

<sup>18</sup> See Reply Comments on the Notice of Proposed Rule Making Submitted by the Association for Maximum Service Television, Inc. and the National Association of Broadcasters, ET Docket No. 97-157 (October 14, 1997) at 4-6 (discussing the limited availability of spectrum for public safety in the major markets); Broadcasters' Comments on the Sixth Notice of Proposed Rulemaking, MM Docket No. 87-268, at 41-42 (November 22, 1996) (citing Report by MIT MacDonald Professor of

(continued...)

Furthermore, use of one 60-69 channel for DTV in a market does not necessarily preclude or even limit public safety use of 24 MHz in this band.<sup>20</sup>

#### IV. NEXT STEPS

Commission is faced with the two fundamental systemic problems in the DTV Table that the Improvements address. These problems must be addressed if the foundation for DTV service is to have integrity and longevity. Naturally, the Improvements do not fully solve the two systemic problems that are highlighted here and there are other, station-specific problems that this filing does not address. Moreover, it is becoming increasingly clear that it will be necessary to have a de minimis standard of permissible interference rather than the "no new interference" standard adopted in the R&Os. MSTV and other broadcasters are working on developing a possible de minimis standard that would make the DTV application and adjustment process (*e.g.*, making changes to power and siting) easier and less administratively

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<sup>18</sup>(...continued)

Economics, Dr. Jerry A. Hausman, attached as Appendix D thereto, in which Professor Hausman values the limited amount of spectrum in channels 60-69 that is not tied up with providing or protecting existing television service; Comments of the State of California, ET Docket No. 97-157 (Sept 15, 1997) at 3 (noting that "within California there is no spectrum currently allocated which is capable of meeting the State's spectrum needs due to existing over-crowding"); Comments of the County of Los Angeles, ET Docket No. 97-157 (Sept. 15, 1997) at 2 (stating that "the Los Angeles metropolitan area is one of the most, if not the most, heavily spectrum congested regions of the country").

<sup>19</sup> Fortunately, the Commission had the foresight to provide flexibility to accommodate the possible need for additional use of channels 60-69 for the DTV transition. The Commission noted that many of the petitions for reconsideration filed in the DTV Proceeding request allotments in channels 60-69 during the transition and stated: "our decisions on these petitions could affect the allocations proposed herein. If any additional DTV full service allotments are made as a result of these petitions, they would be afforded full protection during the DTV transition period." Notice of Proposed Rule Making, ET Docket No. 97-158 (rel. July 10, 1997) at ¶ 1.

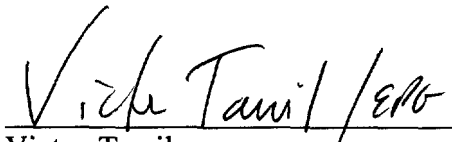
<sup>20</sup> The Improvements are sensitive to public safety's need for spectrum in channels 60 to 69 in the most congested markets. To this end, they eliminated DTV assignments in channels 68 and 69 in Los Angeles to allow for consideration of a public safety assignment in that city.

burdensome.

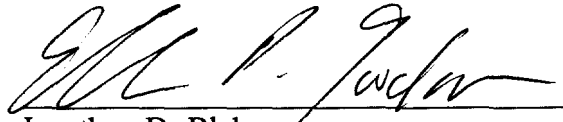
Although this filing does not address every station's concern, we hope that it will help expedite the roll-out of digital television by remedying many of the problems reflected in our Petition and others that would have emerged during the transition. We urge the Commission to act expeditiously to correct the problems we have identified, resolve as many station concerns as possible and establish a formal mechanism for broadcasters to raise and resolve technical concerns as the transition progresses.

Respectfully submitted,

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November 20, 1997



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# **EXHIBIT 1A**

**Improvements to the DTV Table**

CALL CITY - STATE	NTSC		DTV		DTV		NTSC		NTSC		PERCENT MATCHING
	CH.	CH.	POWER (KW)	HAAT METERS	SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)	SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)	NEW IX % NL AREA	POPULATION AFFECTED %	
WJSU ANNISTON AL	40	58	255.4	346.1	20849	1132	17061	622	0.2	0.0	96.4
WDBB BESSEMER AL	17	18	178.1	672.5	32246	1309	28280	1135	2.6	0.5	98.7
WBRC BIRMINGHAM AL	6	50	1000.0	421.5	35630	1602	34250	1518	0.0	0.0	95.6
WBIQ BIRMINGHAM AL	10	53	988.5	404.5	31355	1491	28483	1421	2.2	2.5	96.9
WVTM BIRMINGHAM AL	13	52	973.0	416.8	30797	1486	29085	1450	0.0	0.0	94.3
WBMG BIRMINGHAM AL	42	30	159.7	424.4	26348	1338	23706	1232	0.3	0.1	99.3
WABM BIRMINGHAM AL	68	36	50.0	309.4	16992	1129	13241	975	0.0	0.0	99.5
WIIQ DEMOPOLIS AL	41	19	50.0	333.3	16097	129	15056	121	1.4	1.5	99.1
WTVY DOTHAN AL	4	36	1000.0	570.7	48913	802	44543	771	0.0	0.0	99.2
WDHN DOTHAN AL	18	21	50.0	223.2	15741	306	13899	290	3.3	1.5	100.0
NEW DOTHAN AL	39	0	0.0	129.8	0	0	8951	218	3.7	1.3	0.0
NEW DOTHAN AL	60	0	0.0	385.7	0	0	19208	349	0.6	0.2	0.0
WDIQ DOZIER AL	2	59	1000.0	186.6	25395	466	22164	319	0.0	0.0	97.9
WOWL FLORENCE AL	15	14	50.0	222.1	13109	301	12581	272	2.1	1.0	98.9
WYLE FLORENCE AL	26	20	50.0	229.2	15752	338	11033	244	1.6	1.3	100.0
WFIQ FLORENCE AL	36	22	50.0	221.8	14416	307	12060	259	6.7	3.0	98.4
WNAL GADSDEN AL	44	45	50.0	301.7	12830	676	11593	507	0.8	0.9	99.2
WTJP GADSDEN AL	60	26	82.9	336.7	14352	1160	13907	1133	3.1	4.5	98.3
WTTT HOMEWOOD AL	21	28	267.7	411.6	28030	1415	26869	1346	0.3	0.1	98.6
WHNT HUNTSVILLE AL	19	59	85.3	532.8	24579	889	23557	855	0.6	0.2	99.2
WHIQ HUNTSVILLE AL	25	24	50.0	352.9	19602	757	17319	706	0.6	0.3	99.9
WAAY HUNTSVILLE AL	31	32	50.0	536.1	24880	899	21809	808	1.5	1.3	99.9
WAFF HUNTSVILLE AL	48	49	50.0	576.3	23883	874	21140	782	0.8	0.4	99.3
WZDX HUNTSVILLE AL	54	41	51.6	512.9	18804	720	18126	703	0.4	0.1	99.3
WGIQ LOUISVILLE AL	43	42	158.1	274.9	14446	265	14549	267	1.7	0.6	98.2
WKRQ MOBILE AL	5	39	1000.0	572.8	48087	1213	49073	1308	0.0	0.0	96.5
WALA MOBILE AL	10	9	15.7	370.3	31781	1011	30405	1000	0.0	0.0	99.3
WPMI MOBILE AL	15	47	462.2	512.5	25355	1028	25635	1039	4.3	3.1	98.3
WMPV MOBILE AL	21	20	191.9	435.2	21953	947	21100	876	0.3	0.0	99.3
WEIQ MOBILE AL	42	41	50.0	178.3	13239	632	11451	532	1.4	0.1	99.9
WSFA MONTGOMERY AL	12	57	1000.0	598.4	43417	904	41201	870	0.0	0.0	99.0
WCOV MONTGOMERY AL	20	16	50.0	233.3	15955	452	12216	365	0.7	0.2	99.9
WAIQ MONTGOMERY AL	26	14	50.0	181.1	14380	411	12615	373	4.4	2.8	99.6
WFOA MONTGOMERY AL	32	51	275.6	541.0	28498	539	28124	538	3.8	2.8	99.0
WMCF MONTGOMERY AL	45	46	50.0	305.5	15122	417	11619	364	2.4	1.2	99.9
WCIQ MOUNT CHEAHA AL	7	56	1000.0	609.5	40777	1911	38296	1762	0.3	0.1	98.3

NL means Noise Limited

CALL CITY - STATE	NTSC		DTV		DTV		DTV		NTSC		NTSC		PERCENT MATCHING
	CH.	CH.	POWER (KW)	HAAT METERS	SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)			SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)	NEW IX % NL AREA	POPULATION AFFECTED %	
WSWS OPELIKA AL	66	31	50.0	203.0	14411	518		9940	461	0.0	0.0		100.0
WDFX OZARK AL	34	33	50.0	139.2	10430	255		8807	228	2.4	0.9		100.0
WAKA SELMA AL	8	55	1000.0	507.3	38595	663		34890	622	0.0	0.0		99.2
NEW SELMA AL	29	0	0.0	92.8	0	0		9269	112	0.0	0.0		0.0
WRJM TROY AL	67	48	50.0	577.4	20915	470		17529	425	0.3	0.1		99.3
NEW TUSCALOOSA AL	23	0	0.0	279.5	0	0		13703	255	0.3	0.3		0.0
WCFT TUSCALOOSA AL	33	34	192.1	660.1	34311	1316		33695	1306	1.2	1.0		93.3
NEW TUSCALOOSA AL	39	0	0.0	637.5	0	0		21048	1054	2.1	0.6		0.0
NEW TUSKEGEE AL	22	24	100.5	324.3	17830	474		17598	464	4.4	1.8		98.5
KETG ARKADDELPHIA AR	9	46	873.7	320.9	25142	311		24308	320	0.0	0.0		87.9
KTVE EL DORADO AR	10	27	683.0	607.1	43331	636		31358	512	0.0	0.0		97.2
NEW EL DORADO AR	30	0	0.0	364.4	0	0		19199	370	0.0	0.0		0.0
NEW EL DORADO AR	43	0	0.0	301.4	0	0		17344	343	0.6	0.1		0.0
NEW EL DORADO AR	49	0	0.0	172.7	0	0		11876	129	0.3	0.1		0.0
NEW EUREKA SPRINGS AR	34	0	0.0	179.9	0	0		4223	118	0.6	0.5		0.0
KAFT FAYETTEVILLE AR	13	45	942.3	508.7	35732	702		31568	625	0.0	0.0		98.7
KHOG FAYETTEVILLE AR	29	15	50.0	282.4	15984	317		13523	281	1.4	0.5		99.9
KFSM FORT SMITH AR	5	18	1000.0	385.1	32138	628		28948	533	0.0	0.0		97.6
KPOM FORT SMITH AR	24	27	93.1	325.7	14694	400		14677	406	0.6	0.3		96.8
KHBS FORT SMITH AR	40	21	75.1	602.8	21862	312		19195	288	1.1	1.0		99.1
NEW GOSNELL AR	46	0	0.0	375.8	0	0		16979	1179	1.8	1.1		0.0
NEW HARRISON AR	31	0	0.0	196.8	0	0		3299	41	2.6	1.6		0.0
NEW HOT SPRINGS AR	20	0	0.0	294.3	0	0		3501	96	2.3	1.5		0.0
KVTH HOT SPRINGS AR	26	14	50.0	255.7	13867	212		12586	186	1.8	0.4		99.8
KAIT JONESBORO AR	8	58	1000.0	533.3	40540	704		36281	626	0.0	0.0		99.4
KTEJ JONESBORO AR	19	20	50.0	309.5	18918	295		17551	253	0.1	0.0		100.0
KVTJ JONESBORO AR	48	49	55.3	304.8	17319	256		17134	252	0.0	0.0		99.6
KETS LITTLE ROCK AR	2	47	1000.0	540.1	41317	958		38986	955	0.0	0.0		89.3
KARK LITTLE ROCK AR	4	32	1000.0	504.3	42818	997		40617	974	0.0	0.0		98.0
KDTV LITTLE ROCK AR	7	22	608.4	587.1	41430	956		39086	935	0.0	0.0		98.3
KTHV LITTLE ROCK AR	11	12	20.6	521.3	38472	959		34620	921	0.0	0.0		99.4
KLRT LITTLE ROCK AR	16	33	346.0	539.4	27978	886		28757	886	0.9	1.0		95.2
NEW LITTLE ROCK AR	36	0	0.0	347.1	0	0		15994	651	1.3	0.3		0.0
KVUT LITTLE ROCK AR	42	43	134.8	154.1	14275	605		14147	603	0.1	0.1		98.9
KEMV MOUNTAIN VIEW AR	6	35	1000.0	425.8	37884	525		31041	365	0.0	0.0		98.7
KLEP NEWARK AR	17	26	50.0	163.7	13161	170		3919	54	0.4	0.3		100.0

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	CH.	CH.	POWER (KW)	HAAT METERS	SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)	SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)	NEW IX % NL AREA	POPULATION AFFECTED %	
KVTN PINE BLUFF AR	25	24	127.4	181.6	11634	588	11416	584	2.3	0.9	98.5
KASN PINE BLUFF AR	38	39	199.5	591.7	25803	803	25032	788	0.9	0.4	99.3
KFAA ROGERS AR	51	50	50.0	140.9	11012	272	5938	223	0.3	0.0	100.0
NEW RUSSELLVILLE AR	28	0	0.0	428.0	0	0	5477	89	1.1	0.7	0.0
KSBK SPRINGDALE AR	57	39	50.0	114.7	10341	269	5039	216	0.9	0.4	100.0
NEW COOLIDGE AZ	43	0	0.0	402.2	0	0	8992	686	0.0	0.0	0.0
NEW DOUGLAS AZ	3	0	0.0	55.0	0	0	7451	30	0.0	0.0	0.0
KNAZ FLAGSTAFF AZ	2	22	1000.0	475.8	37455	173	40779	193	2.1	0.5	91.2
KTFL FLAGSTAFF AZ	4	18	686.4	476.0	33850	146	30771	159	0.0	0.0	97.0
KCFG FLAGSTAFF AZ	9	28	50.0	594.7	21125	106	8129	60	0.0	0.0	99.9
KKTM FLAGSTAFF AZ	13	31	663.6	473.9	29737	148	27220	125	0.0	0.0	99.4
NEW FLAGSTAFF AZ	16	0	0.0	849.6	0	0	24514	169	2.1	16.7	0.0
KXGR GREEN VALLEY AZ	46	47	69.4	1113.1	25767	634	23622	610	0.3	0.1	98.8
NEW HOLBROOK AZ	11	0	0.0	58.4	0	0	3222	7	0.0	0.0	0.0
KMOH KINGMAN AZ	6	19	1000.0	581.4	31826	117	37552	113	0.0	0.0	81.5
KMCC LAKE HAVASU CITY AZ	34	35	50.0	810.7	17243	96	12356	77	0.3	0.0	99.9
KPNX MESA AZ	12	36	788.4	534.2	31378	2226	30548	2220	0.0	0.0	96.2
KMSB NOGALES AZ	11	25	608.8	528.7	25906	679	24423	679	0.0	0.0	98.6
NEW NOGALES AZ	16	0	0.0	98.7	0	0	3087	32	0.0	0.0	0.0
NEW PAGE AZ	17	0	0.0	306.3	0	0	6118	9	0.0	0.0	0.0
KTVK PHOENIX AZ	3	24	1000.0	533.2	36081	2232	38778	2234	0.0	0.0	90.5
KPHO PHOENIX AZ	5	17	1000.0	530.9	37600	2233	38306	2234	0.0	0.0	93.3
KAET PHOENIX AZ	8	29	678.8	533.3	32182	2227	30940	2224	0.0	0.0	98.4
KSAZ PHOENIX AZ	10	38	840.2	549.3	32826	2227	30252	2214	0.0	0.0	98.3
KNXV PHOENIX AZ	15	14	50.0	513.1	22703	2218	19630	2202	0.3	0.0	99.7
KPAZ PHOENIX AZ	21	20	50.0	478.1	20753	2209	18825	2204	0.2	0.0	99.5
KTVW PHOENIX AZ	33	34	77.7	513.1	17787	2198	17534	2204	1.0	0.6	97.1
NEW PHOENIX AZ	39	0	0.0	551.9	0	0	24431	2214	0.7	0.1	0.0
KUTP PHOENIX AZ	45	26	61.7	536.0	22888	2217	20300	2194	0.0	0.0	99.1
KASW PHOENIX AZ	61	49	58.4	541.1	18215	2206	17442	2194	0.0	0.0	99.2
KUSK PRESCOTT AZ	7	25	50.0	792.1	21200	168	16592	127	0.2	0.0	99.3
KAUC SIERRA VISTA AZ	58	44	50.0	100.8	4970	59	4535	55	0.0	0.0	99.9
KAJW TOLLESON AZ	51	52	196.9	535.9	24523	2219	22970	2212	0.2	0.0	99.1
KVOA TUCSON AZ	4	23	378.5	1128.0	39524	725	45070	809	0.0	0.0	83.4
KUAT TUCSON AZ	6	30	451.7	1121.8	38810	713	38554	734	0.0	0.0	89.3
KGUN TUCSON AZ	9	35	217.5	1139.9	33217	688	33020	696	0.0	0.0	96.2

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KOLD TUCSON AZ	13	32	729.1	619.3	31378	761	25806	723	0.0	0.0	98.0
KTUU TUCSON AZ	18	19	98.9	598.0	19678	707	18189	696	2.6	0.3	98.6
KUAS TUCSON AZ	27	28	50.0	176.7	7605	649	3047	620	0.9	0.2	99.9
KHRR TUCSON AZ	40	41	50.0	613.0	15525	679	13382	670	0.1	0.0	99.3
KYMA YUMA AZ	11	41	900.9	490.4	34401	233	33099	233	0.0	0.0	99.2
KSWT YUMA AZ	13	16	485.0	488.2	28235	231	26063	230	0.0	0.0	99.3
KDOC ANAHEIM CA	56	55	110.7	746.0	20083	11950	18996	11233	0.0	0.0	99.3
KAEF ARCATA CA	23	22	50.0	509.2	20152	116	11129	91	0.2	0.0	99.8
NEW AVALON CA	54	0	0.0	446.9	0	0	23724	6921	0.2	0.0	0.0
KGET BAKERSFIELD CA	17	25	269.3	474.6	17444	553	16982	497	0.0	0.0	98.9
KERO BAKERSFIELD CA	23	27	81.8	1113.0	21814	679	20908	605	1.0	0.1	99.0
KBAK BAKERSFIELD CA	29	31	65.0	1136.5	15972	547	15150	473	0.2	0.0	98.9
NEW BAKERSFIELD CA	39	0	0.0	457.1	0	0	16128	512	0.1	0.0	0.0
KUZZ BAKERSFIELD CA	45	51	221.5	448.6	15905	521	15818	514	0.0	0.0	98.7
KHIZ BARSTOW CA	64	44	66.4	511.0	15162	632	14112	510	0.0	0.0	99.0
KAJB CALIPATRIA CA	54	50	178.5	505.3	21356	227	20717	227	0.0	0.0	99.3
KBSV CERES CA	23	15	50.0	51.1	8688	750	1653	363	0.0	0.0	100.0
KHSL CHICO CA	12	43	1000.0	402.2	28932	572	28581	556	2.6	2.1	99.1
KCPM CHICO CA	24	36	295.5	563.4	21882	361	21585	348	1.2	3.5	99.6
KGMC CLOVIS CA	43	44	193.8	673.0	25079	1160	24193	1138	5.8	1.2	99.3
KTNC CONCORD CA	42	63	59.4	864.5	26448	6456	25457	5901	0.6	1.7	98.7
KVEA CORONA CA	52	39	61.7	923.9	17034	12215	17308	11910	0.1	0.1	94.9
KRCB COTATI CA	22	12	3.2	632.2	19333	1954	8719	1014	0.1	0.2	97.1
KVYE EL CENTRO CA	7	22	572.4	388.4	22662	186	21718	186	0.1	0.0	99.2
KEYC EL CENTRO CA	9	48	930.0	484.3	26856	229	26439	228	0.0	0.0	98.8
KIEM EUREKA CA	3	16	1000.0	486.9	29375	118	34776	139	0.0	0.0	84.2
KVIQ EUREKA CA	6	17	1000.0	528.2	38975	141	41590	140	0.0	0.0	93.1
KEET EUREKA CA	13	11	13.6	514.9	29982	121	28297	112	0.0	0.0	99.8
KBVU EUREKA CA	29	28	50.0	332.5	13429	98	5900	86	0.1	0.0	100.0
KFWU FORT BRAGG CA	8	15	354.6	747.4	27321	114	26659	87	0.0	0.0	99.4
KVPT FRESNO CA	18	40	82.8	678.1	22830	1119	22598	1104	1.2	0.7	99.2
KSEE FRESNO CA	24	16	50.0	716.4	23247	1122	22357	1095	0.3	0.0	99.5
KFSN FRESNO CA	30	9	8.7	633.7	21087	1143	19627	1118	2.4	0.5	99.3
KJEO FRESNO CA	47	14	50.0	601.8	19225	1082	17893	1046	0.6	0.1	99.3
KAIL FRESNO CA	53	7	3.2	593.1	17928	1102	16353	1073	0.7	0.3	99.9
KFTV HANFORD CA	21	20	269.7	619.1	25766	1227	24996	1205	2.5	0.2	99.3

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KOCE HUNTINGTON BEACH CA	50	49	171.9	330.9	9712	9208	9111	8947	0.0	0.0	99.2
KCBS LOS ANGELES CA	2	23	400.5	1099.4	39526	13303	47843	14295	0.3	0.0	80.9
KNBC LOS ANGELES CA	4	36	664.2	1001.8	40715	13746	46509	14196	0.0	0.0	83.1
KTLA LOS ANGELES CA	5	41	754.0	988.1	38512	13337	47366	14394	0.0	0.0	80.8
KABC LOS ANGELES CA	7	42	350.2	987.4	29900	12792	34370	13527	0.0	0.0	86.0
KCAL LOS ANGELES CA	9	43	334.0	979.1	23094	12714	24734	12855	0.0	0.0	91.7
KTTV LOS ANGELES CA	11	38	404.9	918.3	32370	13049	34389	13485	0.0	0.0	91.8
KCOP LOS ANGELES CA	13	33	354.0	901.5	33524	13143	33871	13425	0.0	0.0	96.4
KWHY LOS ANGELES CA	22	21	107.7	901.0	18750	12447	17533	12041	1.0	1.0	99.0
KCET LOS ANGELES CA	28	32	112.5	953.2	25888	12818	24800	12488	1.4	1.3	98.5
KMEX LOS ANGELES CA	34	35	71.1	904.4	21834	12485	21290	12309	0.8	1.0	97.5
KLCS LOS ANGELES CA	58	59	76.8	902.3	21454	12472	20093	11973	0.1	0.1	99.2
KNSO MERCED CA	51	38	131.4	679.5	21851	1290	21114	1267	1.3	1.9	99.6
KCSO MODESTO CA	19	18	240.4	567.1	26648	2710	26726	2740	4.0	1.8	97.9
KION MONTEREY CA	46	47	50.0	776.9	15978	714	15153	621	0.3	0.3	98.9
KSMS MONTEREY CA	67	31	50.0	706.0	15746	875	12659	686	0.1	0.0	99.4
KWOK NOVATO CA	68	47	120.9	443.1	18651	4065	18192	3636	2.6	1.5	92.7
KTVU OAKLAND CA	2	56	1000.0	484.1	32172	5594	35531	5855	0.0	0.0	89.9
KHSC ONTARIO CA	46	47	70.5	937.4	17946	12199	17418	11913	0.5	0.7	99.0
KADY OXNARD CA	63	64	50.0	550.8	11687	2238	10646	1153	0.0	0.0	99.6
KMIR PALM SPRINGS CA	36	46	50.0	239.9	7024	278	5845	245	0.6	0.6	99.2
KESQ PALM SPRINGS CA	42	17	50.0	1087.8	17143	1355	14271	746	3.9	9.3	99.1
KCVU PARADISE CA	30	20	69.9	439.3	17732	370	17284	361	1.3	2.0	99.6
KKAG PORTERVILLE CA	61	48	74.0	808.1	21829	1336	21354	1266	0.0	0.0	99.4
KRPA RANCHO PALOS VERDES CA	44	29	148.3	448.9	17277	8728	16311	6911	0.0	0.1	99.2
KRCR REDDING CA	7	14	159.4	1108.3	35662	326	35314	308	0.0	0.0	99.2
KIXE REDDING CA	9	18	173.8	1093.5	35108	322	34819	305	0.0	0.0	99.1
KRCA RIVERSIDE CA	62	61	155.4	734.2	17175	11674	16459	11330	0.1	0.2	99.4
KCRA SACRAMENTO CA	3	35	1000.0	593.3	40812	4614	40614	4137	0.0	0.0	95.0
KVIE SACRAMENTO CA	6	53	1000.0	568.9	37454	4391	36703	3855	0.0	0.0	94.2
KXTV SACRAMENTO CA	10	55	1000.0	595.9	35407	4225	35296	3888	0.0	0.0	97.9
KCMY SACRAMENTO CA	29	48	262.1	266.7	12822	1568	12822	1560	10.3	4.3	98.4
KPWB SACRAMENTO CA	31	21	176.6	558.3	24851	3524	24785	3350	1.5	3.6	95.6
KTXL SACRAMENTO CA	40	67	327.9	598.9	24677	3568	24147	3198	0.4	0.1	99.3
KSBW SALINAS CA	8	43	418.9	901.2	28423	4672	26329	2719	0.0	0.0	92.1
KCBA SALINAS CA	35	21	56.2	740.5	17035	870	16254	705	0.3	0.0	98.8

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KSCI SAN BERNARDINO CA	18	66	431.8	737.8	23794	12003		23417	11671	11.1	1.4	99.4
KVCR SAN BERNARDINO CA	24	45	62.6	511.1	13663	8191		12209	4089	0.7	1.0	98.6
KZKI SAN BERNARDINO CA	30	26	158.8	734.1	17616	11786		16785	11049	6.7	1.3	99.0
KFMB SAN DIEGO CA	8	48	1000.0	261.9	24148	2711		21810	2657	0.0	0.0	98.5
KGTV SAN DIEGO CA	10	25	754.4	261.9	20839	2694		19425	2646	0.0	0.0	99.1
KPBS SAN DIEGO CA	15	30	178.9	600.1	22983	2545		23754	2550	0.0	0.0	94.7
KNSD SAN DIEGO CA	39	40	89.7	577.1	19699	2467		20131	2419	9.7	1.1	94.5
KUSI SAN DIEGO CA	51	18	50.9	578.6	16941	2272		19533	2410	0.4	1.2	83.2
KSWB SAN DIEGO CA	69	19	59.1	583.1	20492	2500		19126	2397	0.0	0.0	99.0
KRON SAN FRANCISCO CA	4	57	1000.0	519.1	35432	5879		36305	5775	0.0	0.0	92.3
KPIX SAN FRANCISCO CA	5	29	1000.0	512.1	34346	5696		36307	5855	0.0	0.0	93.5
KGO SAN FRANCISCO CA	7	24	579.9	514.1	31091	5639		30905	5712	1.3	1.4	95.5
KQED SAN FRANCISCO CA	9	30	659.1	515.1	32098	5777		28255	5220	0.1	0.1	99.0
KDTV SAN FRANCISCO CA	14	51	442.9	705.5	16464	5236		17033	5257	5.7	2.3	94.9
KOFY SAN FRANCISCO CA	20	19	142.5	478.1	18306	5305		17579	5144	1.3	1.2	97.2
KTSF SAN FRANCISCO CA	26	27	92.0	418.0	15842	5203		14552	4947	1.4	1.2	99.4
KMTP SAN FRANCISCO CA	32	33	50.0	497.1	16140	5323		13544	4731	0.5	1.0	99.6
KCBS SAN FRANCISCO CA	38	39	209.3	450.1	16903	5237		14532	4597	0.2	0.0	99.5
KBHK SAN FRANCISCO CA	44	45	198.9	496.1	16166	5187		14844	4678	0.4	0.3	99.5
KNTV SAN JOSE CA	11	12	6.0	843.8	31400	4737		29309	4869	0.0	0.1	96.5
KICU SAN JOSE CA	36	52	242.6	691.8	15460	5220		13338	4909	0.4	0.2	97.7
KSTS SAN JOSE CA	48	49	188.2	632.7	13213	4609		12724	4726	3.5	3.2	92.8
KTEH SAN JOSE CA	54	50	50.0	585.6	8503	4388		7329	4163	7.3	9.6	94.7
KLXV SAN JOSE CA	65	41	75.0	809.7	16795	4468		15612	4186	0.0	0.0	99.2
KSBY SAN LUIS OBISPO CA	6	15	1000.0	543.3	39045	399		41684	416	0.0	0.0	91.9
KADE SAN LUIS OBISPO CA	33	34	50.0	436.9	14497	357		5604	245	0.1	0.4	99.9
KCSM SAN MATEO CA	60	59	103.2	380.4	11731	4765		11064	4494	0.7	0.4	99.6
KMSG SANGER CA	59	36	50.0	602.4	16930	925		13954	736	0.0	0.0	99.6
KTVB SANTA ANA CA	40	53	50.0	906.8	21492	12521		18007	12082	6.4	1.3	99.3
KEYT SANTA BARBARA CA	3	27	650.4	931.5	42248	1185		44869	1265	0.0	0.0	89.4
NEW SANTA BARBARA CA	38	0	0.0	398.5	0	0		11341	453	29.9	9.0	0.0
KCOY SANTA MARIA CA	12	19	177.5	589.9	26057	384		24579	349	0.4	0.1	99.1
KFTY SANTA ROSA CA	50	54	50.0	945.3	16554	617		9986	400	1.8	3.9	98.2
KOVR STOCKTON CA	13	25	645.0	595.9	35777	4305		34811	4468	0.2	0.1	94.5
KQCA STOCKTON CA	58	46	149.8	559.9	20899	3261		21170	3217	2.0	3.8	97.2
KFTL STOCKTON CA	64	62	60.7	883.3	27032	6580		25478	5755	0.6	0.0	99.1

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CALL CITY - STATE	NTSC		DTV		DTV			NTSC		NTSC		PERCENT MATCHING
	CH.	CH.	POWER (KW)	HAAT METERS	SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)		SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)	NEW IX % NL AREA	POPULATION AFFECTED %	
KVMD TWENTYNINE PALMS CA	31	29	50.0	159.4	6355	59		2242	50	0.2	0.0	100.0
KPST VALLEJO CA	66	34	60.0	471.1	13137	5106		11278	3655	0.2	0.0	99.1
KSTV VENTURA CA	57	24	99.2	529.8	14006	1581		13260	1218	0.0	0.0	98.5
KMPH VISALIA CA	26	28	167.8	783.2	27041	1135		26367	1121	0.2	0.0	99.3
KNXT VISALIA CA	49	50	79.6	833.1	19888	1133		19860	1239	0.2	0.1	98.4
KCAH WATSONVILLE CA	25	58	50.0	680.0	13005	816		11345	712	0.4	0.6	99.4
NEW WEAVERVILLE CA	32	0	0.0	866.5	0	0		10327	31	0.0	0.0	0.0
NEW YREKA CITY CA	20	0	0.0	983.2	0	0		13569	170	0.0	0.0	0.0
KTVJ BOULDER CO	14	15	94.9	351.8	16633	2066		17197	2086	0.6	0.5	94.7
KBDI BROOMFIELD CO	12	23	838.7	735.6	31090	2135		30318	2132	0.0	0.0	98.7
KWHD CASTLE ROCK CO	53	47	127.0	193.2	10929	1692		10389	1645	0.0	0.0	100.0
KKTV COLORADO SPRINGS CO	11	10	19.3	736.3	30531	1157		25839	598	0.3	0.0	99.5
KRDO COLORADO SPRINGS CO	13	24	428.7	676.7	26915	638		24347	584	0.0	0.0	99.4
KXRM COLORADO SPRINGS CO	21	22	72.2	675.8	18568	551		18138	539	1.1	0.1	98.1
KWGN DENVER CO	2	34	1000.0	335.6	27497	2236		31049	2328	0.0	0.0	87.3
KCNC DENVER CO	4	35	1000.0	444.8	32197	2270		32034	2297	0.0	0.0	89.9
KRMA DENVER CO	6	18	1000.0	309.0	27496	2244		27084	2157	0.0	0.0	94.4
KMGH DENVER CO	7	17	1000.0	325.2	24769	2209		24813	2196	0.0	0.0	96.3
KUSA DENVER CO	9	16	1000.0	312.9	24909	2221		23395	2184	0.0	0.0	97.3
KTVB DENVER CO	20	19	239.6	381.6	19316	2097		18589	2029	0.6	0.2	97.2
KDVR DENVER CO	31	32	225.8	334.8	14348	2003		16705	2033	0.9	0.6	85.2
KRMT DENVER CO	41	40	72.2	360.7	12099	1879		11926	1860	0.4	0.5	99.9
KCEC DENVER CO	50	51	78.9	268.7	11937	1868		11648	1851	0.0	0.0	99.5
KUBD DENVER CO	59	44	141.1	357.0	17276	2054		16455	2030	0.0	0.0	100.0
KREZ DURANGO CO	6	17	50.0	148.7	8971	64		9153	57	0.0	0.0	91.0
NEW DURANGO CO	20	0	0.0	133.2	0	0		1807	27	0.2	0.0	0.0
NEW DURANGO CO	33	0	0.0	151.2	0	0		6354	39	0.0	0.0	0.0
KECT FORT COLLINS CO	22	21	50.0	253.6	14434	453		13699	403	3.1	0.5	99.9
KREG GLENWOOD SPRINGS CO	3	23	821.4	779.8	26046	100		31782	84	0.1	0.2	79.8
KFQX GRAND JUNCTION CO	4	15	68.3	422.2	12153	103		13830	106	0.0	0.0	85.5
KREX GRAND JUNCTION CO	5	2	1.0	54.5	8549	104		6535	92	0.0	0.0	100.0
KJCT GRAND JUNCTION CO	8	7	9.3	899.2	31646	141		25949	104	0.1	0.0	99.5
KKCO GRAND JUNCTION CO	11	14	347.4	437.3	21138	112		19393	100	0.0	0.0	99.5
KRMJ GRAND JUNCTION CO	18	17	50.0	905.5	19410	97		12541	94	0.2	0.0	100.0
KDEN LONGMONT CO	25	26	211.9	323.5	18046	2153		17741	2145	0.8	0.3	99.9
KREY MONTROSE CO	10	13	3.2	102.0	8659	42		4337	33	0.0	0.0	100.0

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	CH.	CH.	POWER (KW)	HAAT METERS	SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)	SERVICE AREA (SQ KM)	POPULATION (THOUSANDS)	NEW IX % NL AREA	POPULATION AFFECTED %	
KOAA PUEBLO CO	5	27	1000.0	394.7	31386	588	31784	583	0.6	0.0	92.9
KTSC PUEBLO CO	8	29	361.1	726.1	30355	1325	26319	596	0.0	0.0	99.0
KSBS STEAMBOAT SPRINGS CO	24	10	3.2	228.4	9596	24	1486	11	0.0	0.0	100.0
KTVS STERLING CO	3	32	1000.0	231.6	24757	70	22217	61	0.0	0.0	95.8
WHAI BRIDGEPORT CT	43	42	50.0	158.6	9581	2645	9563	2588	2.6	1.9	97.3
WEDW BRIDGEPORT CT	49	6	1.0	223.3	14645	6581	9733	3177	2.3	3.0	99.5
WFSB HARTFORD CT	3	32	1000.0	278.2	26121	4169	24639	3883	3.8	1.5	97.3
WHCT HARTFORD CT	18	68	307.2	297.7	17617	3174	16891	2958	1.4	2.1	96.1
WEDH HARTFORD CT	24	63	50.0	272.2	11842	2496	11376	2601	3.3	7.2	92.4
WTIC HARTFORD CT	61	46	140.6	519.8	24333	4162	21963	3444	4.3	3.3	95.4
WVIT NEW BRITAIN CT	30	29	114.4	454.5	23478	4001	22360	3819	3.0	5.0	99.3
WTNH NEW HAVEN CT	8	34	493.4	362.5	24885	5638	23126	4703	1.8	0.9	98.1
WBNE NEW HAVEN CT	59	16	70.9	314.5	19529	4576	18360	4365	0.7	0.8	99.9
WEDY NEW HAVEN CT	65	39	50.0	92.4	9799	2811	1357	526	0.5	0.2	100.0
WTWS NEW LONDON CT	26	50	152.5	381.8	16817	2572	15322	1760	3.8	5.4	96.8
WEDN NORWICH CT	53	9	3.2	207.0	16198	2244	9555	831	3.8	5.1	99.4
WTVX WATERBURY CT	20	52	146.2	365.2	20308	4841	18331	3904	1.1	0.4	98.4
WRC WASHINGTON DC	4	30	1000.0	239.1	27253	6554	24566	6430	6.9	3.0	98.3
WTTG WASHINGTON DC	5	59	1000.0	237.0	26542	6532	26420	6514	0.1	0.1	97.7
WJLA WASHINGTON DC	7	34	1000.0	239.3	24387	6420	22994	6346	0.0	0.0	99.3
WUSA WASHINGTON DC	9	10	13.0	239.3	23114	6212	22701	6300	0.0	0.0	97.5
WDCA WASHINGTON DC	20	19	158.3	236.1	18215	6102	16934	5678	0.3	0.0	99.5
WETA WASHINGTON DC	26	27	65.1	236.1	15438	5864	15546	5616	0.8	0.2	97.5
WHMM WASHINGTON DC	32	33	189.7	216.1	11801	5117	14313	5747	9.7	7.1	80.2
WBDC WASHINGTON DC	50	51	62.9	251.9	15064	5906	14079	5351	0.1	0.1	99.7
WDPB SEAFORD DE	64	31	50.0	195.5	9855	352	4197	155	0.0	0.0	100.0
WHYY WILMINGTON DE	12	42	1000.0	295.4	23046	7641	20102	6722	0.1	0.0	96.9
WTGI WILMINGTON DE	61	68	87.7	292.8	16620	5617	15288	5306	1.9	2.1	99.1
WPPB BOCA RATON FL	63	44	58.6	310.3	13987	3705	13979	3705	0.0	0.0	98.9
WFCT BRADENTON FL	66	42	50.0	462.4	19189	2474	18247	2374	0.0	0.0	100.0
WFTX CAPE CORAL FL	36	35	208.2	450.8	24247	887	24032	876	0.0	0.0	99.1
WCLF CLEARWATER FL	22	21	224.3	436.5	21167	2539	21161	2538	7.8	4.9	99.3
WKCF CLERMONT FL	18	17	231.7	455.3	28660	2148	28596	2099	0.0	0.0	98.7
WTGL COCOA FL	52	51	149.9	285.6	14295	1510	14071	1501	0.0	0.0	99.0
WBCC COCOA FL	68	30	50.0	287.6	14464	1136	13437	1038	0.0	0.0	100.0
WESH DAYTONA BEACH FL	2	11	45.1	502.1	44535	2632	41706	2390	0.0	0.0	99.2

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